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Protein prodn. in transformed yeast deficient in protease - and opt. auxotrophic, providing accumulation of high prod. yields without proteolysis

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Patent Number(s): EP327797-A1 [→ Original](#) ; DE3804890-A [→ Original](#) ; EP327797-A [→ Original](#) ; JP2002385-A [→ Original](#) ;
 US5175003-A [→ Original](#) ; DE3804890-C2 [→ Original](#) ; EP327797-B1 [→ Original](#) ; DE5800980-G [→ Original](#) ; ES2204684-
 T3 [→ Original](#)

Inventor(s): WOLF D H, KOPETZKI E, SCHUMACHER G

Patent Assignee(s) and Coder(s): BOEHRINGER MANNHEIM GMBH (BOEF-C)
 ROCHE DIAGNOSTICS GMBH (HOFF-C)

Derwent Primary Accession Number: 1989-207843 [33]

Citing Patents: 19

Patents Cited by Examiner: 8

Articles Cited by Examiner: 30

Abstract: In the prodn. of proteins or protein-contg. gene products by transformation of eucaryotic cells with recombinant DNA contg. the appropriate gene, cultivation of the transformants and isolation of the expressed gene product, the new feature is that cells of a yeast strain deficient in protease A and B are used as host.

The host may also be deficient in protease D and carboxypeptidase Y and/or S, e.g. the strain ABYSD-11 (DSM 4322).

USE/ADVANTAGE: In these hosts, proteins are expressed during the stationary growth phase and are accumulated stably, so that fermentation yields are improved. The products are not subject to proteolytic degradation during prolonged fermentation times or during subsequent isolation.

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International Patent Classification: C07K-015/04; C12N-001/18; C12N-009/26; C12N-015/00; C12P-019/34; C12P-021/00; C12N-001/16; C12N-001/19; C12P-021/02; C12N-015/81

Derwent Class Code(s): B04 (Natural products and polymers, testing, compounds of unknown structure); D16 (Fermentation industry)

Derwent Manual Code(s): B04-B02B2; B04-B04AS; D05-C12

Additional Information

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Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
EP327797-A1					
DE3804890-A	13 Jul 1989		198929	Pages: 9	
EP327797-A	16 Aug 1989	C12P-021/00	198933		
-JP2002395-A	08 Jan 1990		199007		
US5179003-A	12 Jan 1993	C12P-021/00	199305	Pages: 7	
DE3804890-C2	05 Sep 1996	C12P-021/00	199640	Pages: 10	
EP327797-B1	03 Sep 2003	C12P-021/00	200360		German
DE58909889-G	09 Oct 2003	C12P-021/00	200370		
ES2204864-T3	01 May 2004	C12P-021/00	200431		

Application Details:

DE3804890-A	DE3804890	17 Feb 1988
EP327797-A	EP100104	04 Jan 1989
-JP2002395-A	JP000168	05 Jan 1989
US5179003-A	US293502	04 Jan 1989
DE3804890-C2	DE3804890	17 Feb 1988
EP327797-B1	EP100104	04 Jan 1989
DE58909889-G	DE508889	04 Jan 1989

Further Application Details:

DE58909889-G	Based on	Patent	EP327797
DE58909889-G	EP application	Application	EP100104
ES2204864-T3	Based on	Patent	EP327797
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Priority Application Information and Date:

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DE3804890	17 Feb 1988

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EP327797-A:

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EP327797-B1:

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Field of Search: x; C12P021/00

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
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